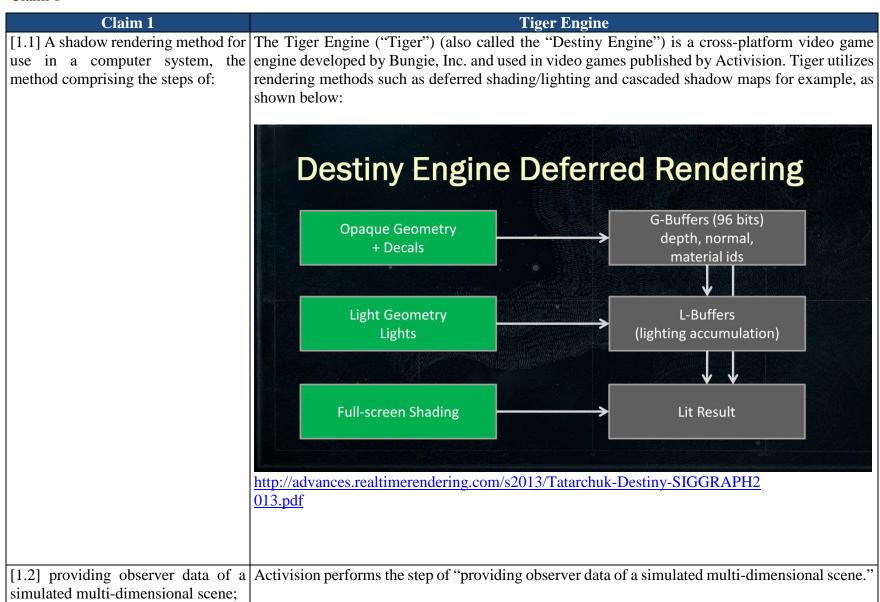
U.S. Patent No. 7,061,488

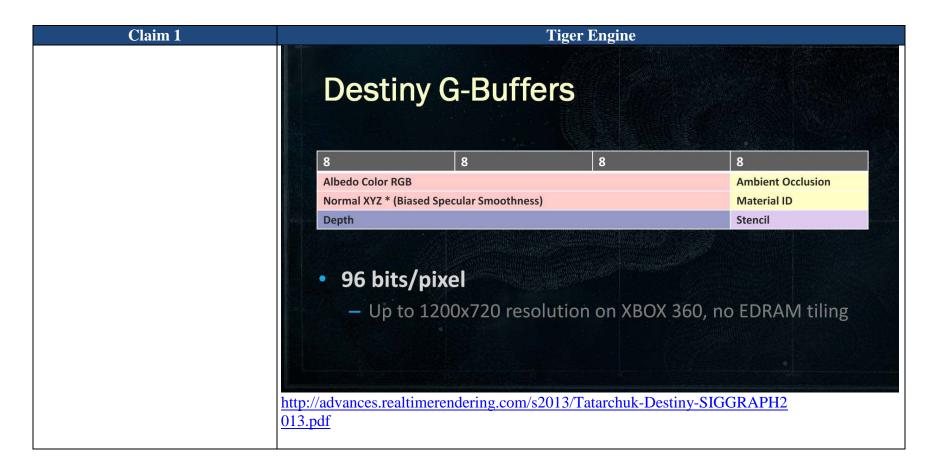
Tiger Engine

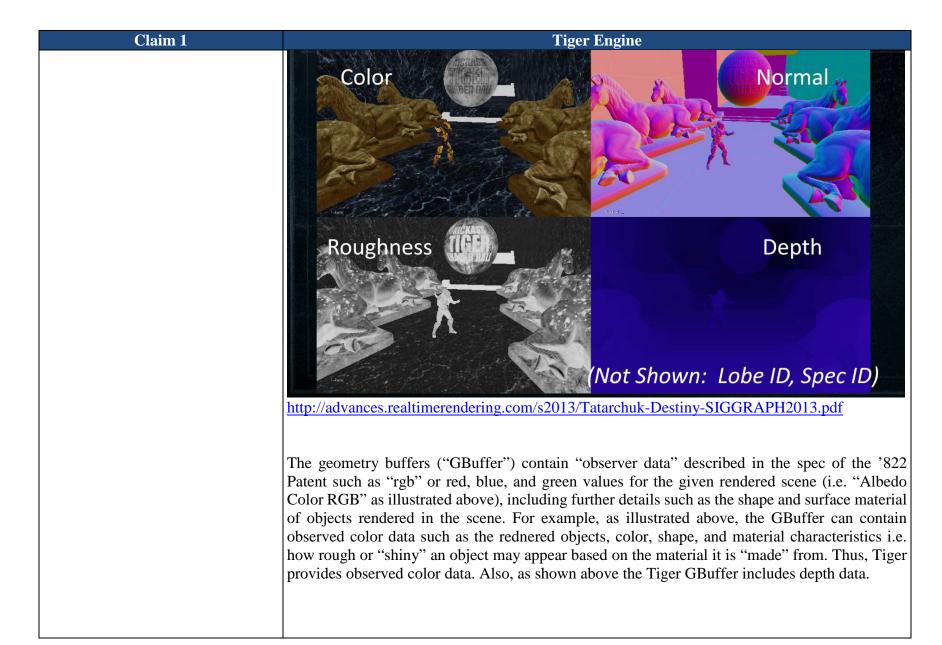
Activision Exhibit 6

Claim 1

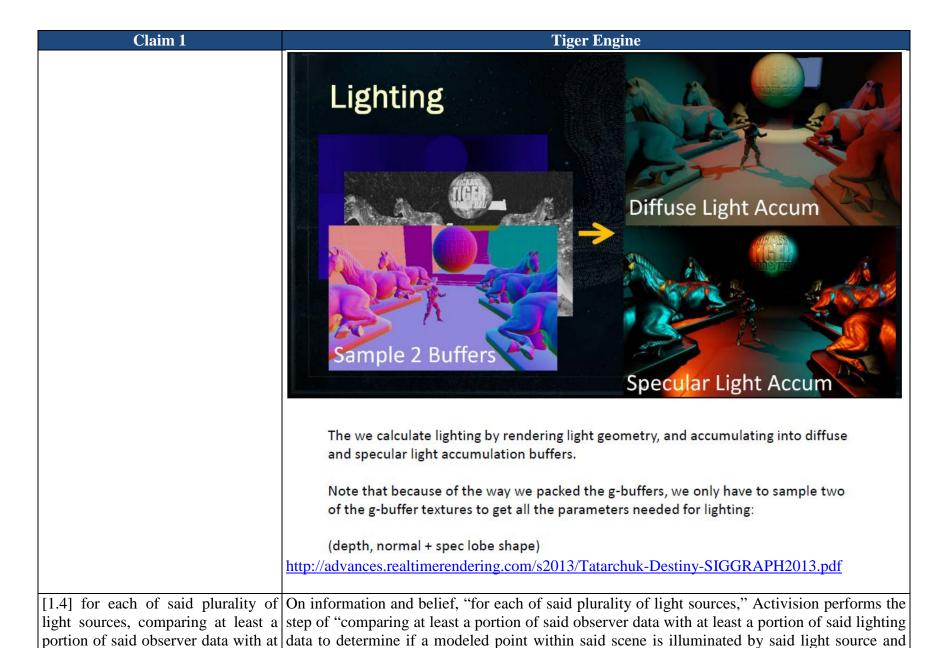


Claim 1	Tiger Engine
	The '822 specification teaches that, in one embodiment, observer data may include "observed color data and observed depth data associated with a plurality of modeled polygons within the scene as rendered from an observer's perspective." Col. 3:38-41.
	Observed color data includes, for example, "an observed red-green-blue value for the pixel(s)," and observed depth data includes, for example, "an observed z-buffer value for the pixel(s)." Col. 3:43-46.
	In the context of 3D graphics, a "camera" observes one or more objects in a simulated world. The camera captures a particular viewpoint of the world, observing specific data associated with the objects as seen from the camera's point-of-view.
	Tiger's deferred shading technique uses a geometry buffer (GBuffer) that stores material and object attributes as shown, for example, below:

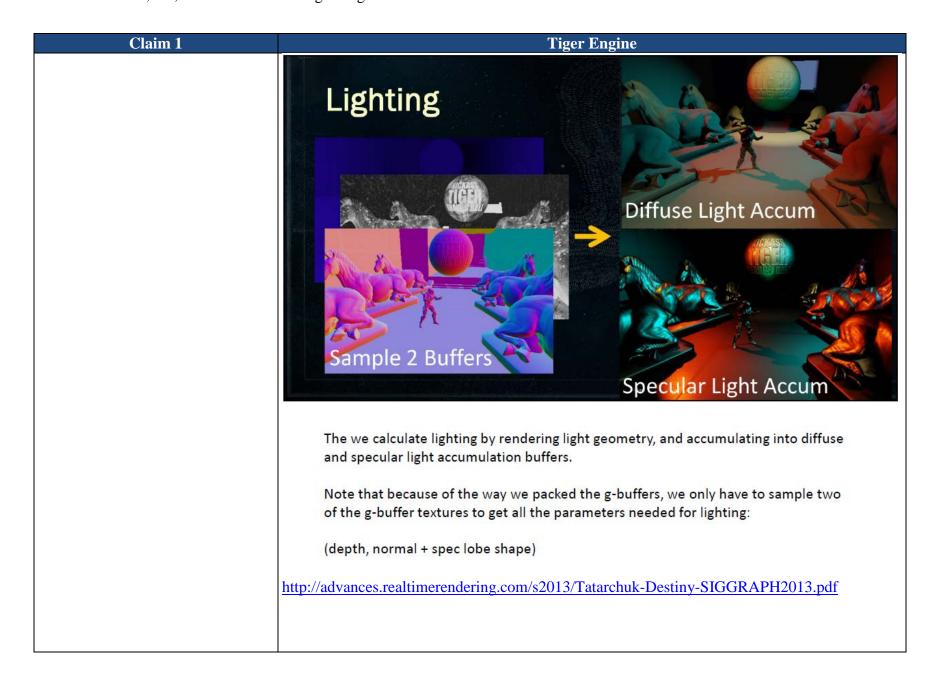




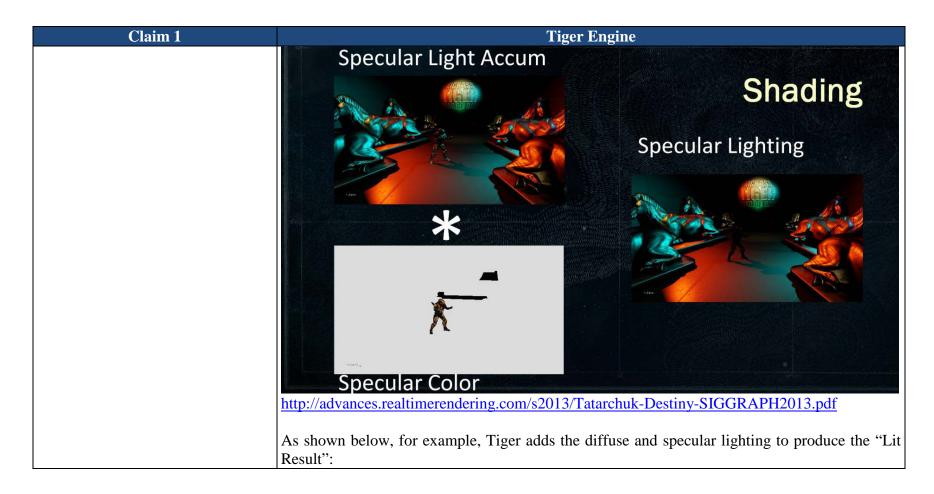
Claim 1	Tiger Engine
[1.3] providing lighting data	Activision performs the step of "providing lighting data associated with a plurality of simulated
associated with a plurality of	light sources arranged to illuminate said scene, said lighting data including light image data."
simulated light sources arranged to	
illuminate said scene, said lighting	"Light image 51C includes RGB pixel data values for the light emitted, for X by Y number of
data including light image data;	pixels. For example, the data in light image 51C can represent the intensity, color, and/or pattern
	of light emitted by light source #1." Col. 7:15-19.
	On information and belief, Tiger provides "lighting data including light image data" such as,
	for example, when Tiger "render[s] light geometry" as shown below:

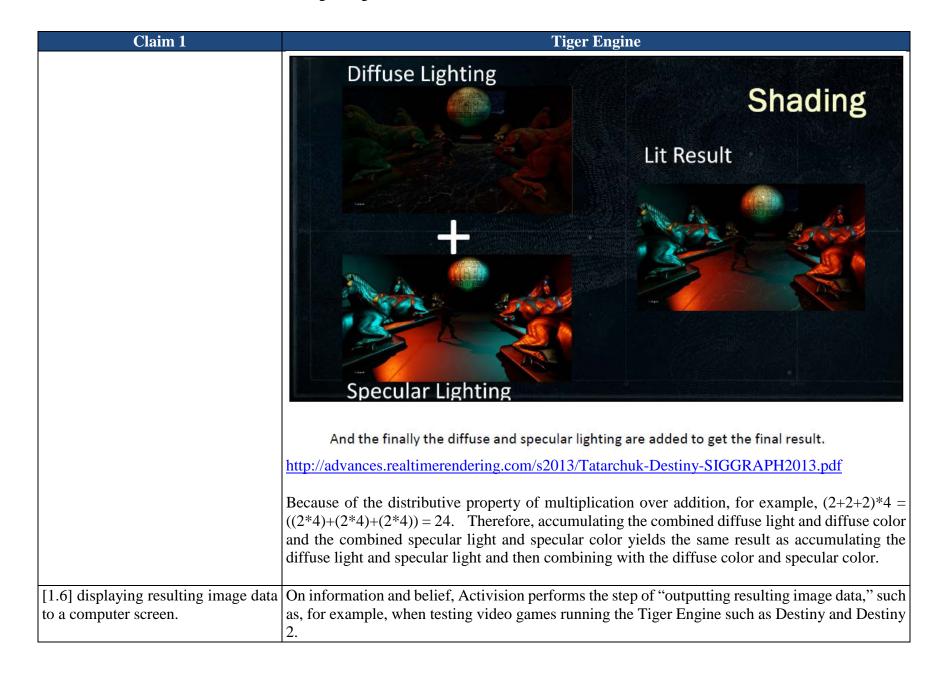


Claim 1	Tiger Engine
least a portion of said lighting data to	storing at least a portion of said light image data associated with said point and said light source in
determine if a modeled point within	a light accumulation buffer."
said scene is illuminated by said light	
source and storing at least a portion	Upon information and belief, Tiger iterates through each light source to determine whether a
of said light image data associated	modeled point is illuminated by, for example, intersecting light sources with portions of the screen
with said point and said light source	to be rendered. This intersection process involves comparing the observed depth data with the
in a light accumulation buffer; and	lighting depth data. As shown below, for example, the Tiger "calculate[s] light by rendering light
then	geometry, and accumulating into diffuse and specular light accumulation buffers." As shown
	below, "depth" is specifically listed as one of the "parameters needed for lighting," further
	confirming that Tiger utilizes a depth test to determine which points within a scene are
	illuminated. Plaintiffs expect that analysis of the Tiger source code will confirm this
	functionality.



Claim 1 **Tiger Engine** [1.5] combining at least a portion of Activision performs the step of "combining at least a portion of said light accumulation buffer said light accumulation buffer with with said observer data." said observer data; and As shown below, for example, Tiger combines the accumulated diffuse light with the observed diffuse color: Diffuse Light Accum Shading **Diffuse Lighting Diffuse Color** http://advances.realtimerendering.com/s2013/Tatarchuk-Destiny-SIGGRAPH2013.pdf Furthermore, as shown below, for example, Tiger combines the accumulated specular light with observed specular color:





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Claim 1	Tiger Engine
	As shown above, for example, Tiger outputs resulting image data (i.e. the "Lit Result").